IN THE CLAIMS

Please amend the claims to read as follows:

- (Currently Amended) A process for the producing a solid catalyst component (1) for
 α-olefin polymerization, which comprises the steps of:
- (1) reducing a titanium compound represented by the following formula [I] with an organomagnesium compound in the presence of an organosilicon compound having an Si-O bond, thereby obtaining a solid product, and
- (2) contacting the solid product with a halogeno compound of the $\frac{14 \text{ g}}{\text{G}}$ roup $\frac{14}{\text{e}}$ element, at least one member selected from the group consisting of an electron donor compound (E1) and an organic acid halide, and a compound having a Ti-halogen bond, thereby obtaining the solid catalyst component (1) for α -olefin polymerization,

wherein "a" is a number of 1 to 20, R^2 is a hydrocarbon group having 1 to 20 carbon atoms, and X^2 is a halogen atom or a hydrocarbyloxy group having 1 to 20 carbon atoms, and all of X^2 may be the same or different from one another.

- 2. (Currently Amended) The process for producing a solid catalyst component (1) for α olefin polymerization according to Claim 1, wherein the step (2) comprises:
- (i) contacting the solid product with the electron donor compound (E1) to obtain a contacted product, and
- (ii) contacting the contacted product obtained with the halogeno compound of the 14 g Group

 14 element and a compound having a Ti-halogen bond.
- 3. (Currently Amended) The process for producing a solid catalyst component (1) for α olefin polymerization according to Claim 1, wherein the step (2) comprises:
- (i) contacting the solid product with the compound having a Ti-halogen bond and the organic acid halide to obtain a contacted product, and
- (ii) contacting the contacted product obtained with the halogeno compound of the 14 g Group 14 element, the electron donor compound (E1) and the compound having a Ti-halogen bond.
- 4. (Currently Amended) The process for producing a solid catalyst component (1) for α-olefin polymerization according to Claim 1, wherein the step (2) comprises:
- (i) contacting the solid product with a mixture of the compound having a Ti-halogen bond and an ether to obtain a contacted product,
- (ii) contacting the contacted product obtained in the above (i) with the organic acid halide to obtain a contacted product,
- (iii) contacting the contacted product obtained in the above (ii) with a mixture of the halogeno compound of the 14 g Group 14 element, a carboxylic acid ester and an ether to obtain a contacted product, and

- (iv) contacting two times the contacted product obtained in the above (iii) with a mixture of the compound having a Ti-halogen bond and an ether.
- 5. (Currently Amended) The process for producing a solid catalyst component (1) for α olefin polymerization according to Claim 1, wherein the step (2) comprises:
- (i) contacting the solid product with a mixture of the compound having a Ti-halogen bond and an ether to obtain a contacted product,
- (ii) contacting the contacted product obtained in the above (i) with the organic acid halide to obtain a contacted product,
- (iii) contacting the contacted product obtained in the above (ii) with a mixture of the compound having a Ti-halogen bond, a carboxylic acid ester and an ether to obtain a contacted product,
- (iv) contacting the contacted product obtained in the above (iii) with a mixture of the halogeno compound of the 14 g Group 14 element and an ether to obtain a contacted product, and
- (v) contacting the contacted product obtained in the above (iv) with a mixture of the compound having a Ti-halogen bond and an ether.
- 6. (Currently Amended) The process for producing a solid catalyst component (1) for α-olefin polymerization according to Claim 1, wherein the halogeno compound of the 14 g Group 14 element contains a compound represented by the following formula,

 $MR^{1}_{\ m\text{-}n}X^{1}_{\ n}$

wherein M is an atom belonging to the $\frac{14 \text{ g}}{14 \text{ g}} = \frac{14}{14 \text{ g}} = \frac{$

- 7. (Original) The process for producing a solid catalyst component (1) for α -olefin polymerization according to Claim 6, wherein M contains a silicon atom.
- 8. (Original) The process for producing a solid catalyst component (1) for α -olefin polymerization according to Claim 1, wherein the titanium compound contains a compound represented by the following formula,

$$Ti(OR^2)_q X^3_{4-q}$$

wherein R^2 is a hydrocarbon group having 1 to 20 carbon atoms, X^3 is a halogen atom, and q is a number satisfying $0 < q \le 4$.

- 9. (Original) The process for producing a solid catalyst component (1) for α -olefin polymerization according to Claim 1, wherein "a" in the formula [I] is 2 or 4.
- 10. (Currently Amended) A process for producing a solid catalyst component (2) for α olefin polymerization, which comprises the steps of:

- (1) reducing a titanium compound represented by the following formula [I] with an organomagnesium compound in the presence of an organosilicon compound having an Si-O bond and an ester compound, thereby obtaining a solid product, and
- (2) contacting the solid product with a halogen compound of the $\frac{14 \text{ g}}{\text{G}}$ roup $\frac{14}{\text{e}}$ element, at least one member selected from the group consisting of an electron donor compound (E1) and an organic acid halide, and a compound having a Ti-halogen bond, thereby obtaining the solid catalyst component (2) for α -olefin polymerization,

$$R^{2} \xrightarrow{O} \xrightarrow{Ti} \xrightarrow{a} X^{2}$$
[I]

wherein "a" is a number of 1 to 20, R^2 is a hydrocarbon group having 1 to 20 carbon atoms, and X^2 is a halogen atom or a hydrocarbyloxy group having 1 to 20 carbon atoms, and all of X^2 may be the same or different from one another.

- 11. (Currently Amended) The process for producing a solid catalyst component (± 2) for α -olefin polymerization according to Claim 10, wherein the step (2) comprises:
- (i) contacting the solid product with the electron donor compound (E1) to obtain a contacted product, and
- (ii) contacting the contacted product obtained with the halogeno compound of the 14 g Group

 14 element and the compound having a Ti-halogen bond.

- 12. (Currently Amended) The process for producing a solid catalyst component ($\frac{12}{2}$) for α -olefin polymerization according to Claim 10, wherein the step (2) comprises:
- (i) contacting the solid product with the compound having a Ti-halogen bond and the organic acid halide to obtain a contacted product, and
- (ii) contacting the contacted product obtained with the halogeno compound of the 14 g Group 14 element, the electron donor compound (E1) and the compound having a Ti-halogen bond.
- 13. (Currently Amended) The process for producing a solid catalyst component (± 2) for α -olefin polymerization according to Claim 10, wherein the step (2) comprises:
- (i) contacting the solid product with a mixture of the compound having a Ti-halogen bond and an ether to obtain a contacted product,
- (ii) contacting the contacted product obtained in the above (i) with the organic acid halide to obtained a contacted product,
- (iii) contacting the contacted product obtained in the above (ii) with a mixture of the halogeno compound of the 14 g Group 14 element, a carboxylic acid ester and an ether to obtain a contacted product, and
- (iv) contacting two times the contacted product obtained in the above (iii) with a mixture of the compound having a Ti-halogen bond and an ether.
- 14. (Currently Amended) The process for producing a solid catalyst component (± 2) for α -olefin polymerization according to Claim 10, wherein the step (2) comprises:
- (i) contacting the solid product with a mixture of the compound having a Ti-halogen bond and an ether to obtain a contacted product,

- (ii) contacting the contacted product obtained in the above (i) with the organic acid halide to obtain a contacted product,
- (iii) contacting the contacted product obtained in the above (ii) with a mixture of the compound having a Ti-halogen bond, a carboxylic acid ester and an ether to obtain a contacted product,
- (iv) contacting the contacted product obtained in the above (iii) with a mixture of the halogeno compound of the 14 g Group 14 element and an ether to obtain a contacted product, and
- (v) contacting the contacted product obtained in the above (iv) with a mixture of the compound having a Ti-halogen bond and an ether.
- 15. (Currently Amended) The process for producing a solid catalyst component ($\frac{12}{2}$) for α -olefin polymerization according to Claim 10, wherein the halogeno compound of the $\frac{14 \text{ g}}{2}$ Group $\frac{14}{2}$ element contains a compound represented by the following formula,

$$MR_{m-n}^1 X_n^1$$

wherein M is an atom belonging to the $\frac{14 \text{ g}}{\text{G}}$ roup $\frac{14}{\text{N}}$, R¹ is a hydrocarbon group having 1 to 20 carbon atoms, X¹ is a halogen atom, m is a valence of M, and n is a number satisfying $0 < n \le m$.

16. (Currently Amended) The process for producing a solid catalyst component ($\frac{1}{2}$) for α -olefin polymerization according to Claim 15, wherein M contains a silicon atom.

17. (Currently Amended) The process for producing a solid catalyst component (± 2) for α -olefin polymerization according to Claim 10, wherein the titanium compound contains a compound represented by the following formula,

$$Ti(OR^2)_q X^3_{4-q}$$

wherein R^2 is a hydrocarbon group having 1 to 20 carbon atoms, X^3 is a halogen atom, and q is a number satisfying $0 < q \le 4$.

- 18. (Currently Amended) The process for producing a solid catalyst component ($\frac{12}{2}$) for α -olefin polymerization according to Claim 10, wherein "a" in the formula [I] is 2 or 4.
- 19. (Currently Amended) A process for producing a catalyst (1) for α -olefin polymerization, which comprises the steps of:
- (1) reducing a titanium compound represented by the following formula [I] with an organomagnesium compound in the presence of an organosilicon compound having an Si-O bond, thereby obtaining a solid product,
- (2) contacting the solid product with a halogeno compound of the $\frac{14 \text{ g}}{14 \text{ g}}$ Group $\frac{14}{14 \text{ g}}$ element, at least one member selected from the group consisting of an electron donor compound (E1) and an organic acid halide, and a compound having a Ti-halogen bond, thereby obtaining a solid catalyst component (1) for α -olefin polymerization, and
- (3) contacting the solid catalyst component (1), an organoaluminum compound and an electron donor compound (E2) with one another, thereby obtaining the catalyst (1) for α -olefin polymerization,

$$\begin{array}{c|c}
X^2 \\
 & \downarrow \\$$

wherein "a" is a number of 1 to 20, R^2 is a hydrocarbon group having 1 to 20 carbon atoms, and X^2 is a halogen atom or a hydrocarbyloxy group having 1 to 20 carbon atoms, and all of X^2 may be the same or different from one another.

20. (Original) The process for producing a catalyst (1) for α -olefin polymerization according to Claim 19, wherein the electron donor compound (E2) contains an alkoxysilicon compound represented by the following formula,

$$R^3_r Si(OR^4)_{4-r}$$

wherein R^3 is a hydrocarbon group having 1 to 20 carbon atoms or a hydrogen atom, R^4 is a hydrocarbon group having 1 to 20 carbon atoms, r is a number satisfying $0 < r \le 4$, and all of R^3 and all of R^4 may be the same or different from one another, respectively.

21. (Original) A process for producing a catalyst (2) for α -olefin polymerization, which comprises the steps of:

- (1) reducing a titanium compound represented by the following formula [I] with an organomagnesium compound in the presence of an organosilicon compound having an Si-O bond and an ester compound, thereby obtaining a solid product,
- (2) contacting the solid product with a halogeno compound of the $\frac{14 \text{ g}}{\text{G}}$ roup $\frac{14}{\text{e}}$ element, at least one member selected from the group consisting of an electron donor compound (E1) and an organic acid halide, and a compound having a Ti-halogen bond, thereby obtaining a solid catalyst component (2) for α -olefin polymerization, and
- (3) contacting the solid catalyst component (2), an organoaluminum compound and an electron donor compound (E2) with one another, thereby obtaining the catalyst (2) for α -olefin polymerization,

wherein "a" is a number of 1 to 20, R^2 is a hydrocarbon group having 1 to 20 carbon atoms, and X^2 is a halogen atom or a hydrocarbyloxy group having 1 to 20 carbon atoms, and all of X^2 may be the same or different from one another.

22. (Original) The process for producing a catalyst (2) for α -olefin polymerization according to Claim 21, wherein the electron donor compound (E2) contains an alkoxysilicon compound represented by the following formula,

$$R^3_r Si(OR^4)_{4-r}$$

wherein R^3 is a hydrocarbon group having 1 to 20 carbon atoms or a hydrogen atom, R^4 is a hydrocarbon group having 1 to 20 carbon atoms, r is a number satisfying $0 < r \le 4$, and all of R^3 and all of R^4 may be the same or different from one another, respectively.

- 23. (Cancelled)
- 24. (Cancelled)